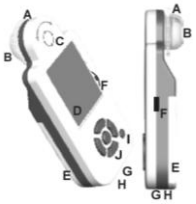
ViTiny F300 User Manual Ver. 080303

Appearance Introduction



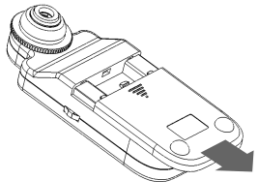
A Focal Distance Adjusted
B Plastic Distance Dial+White LED Light
C Auxiliary Aiming
D Display Screen
E Battery Cap
F 3-way Rotation Button
G Power Hole (option)
H Hanging Ornament Hole
I Power Button
J Function Button

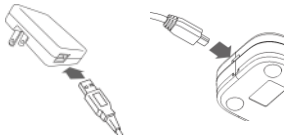
ViTiny Packing Contents

Name	Quantity	Name	Quantity
ViTiny F300	1	Manual	1
Wrist Strap	1	Ni-MH Battery	3

Notices of Accessories

You can use AAA alkaline battery or Ni-MH rechargeable battery to supply power for this product. Open the battery cap in the instructed direction to install the batteries
If you are intend to use ViTiny for a long time, it is suggested to use an USB power adaptor to supply power (5V 500mA up). Connect the mini USB line to the power hole of ViTiny, and then plug the USB power adaptor into the outlet.
ViTiny can be used to charge Ni-MH rechargeable battery (capacity 700mAh and up is recommended). Turn ViTiny power off, and use the USB cable to connect ViTiny to your USB power adapter. When recharging in power-off status the white LEDs will flash twice every three seconds. When charging complete in power-off status, the white LEDs will flash once every three seconds.

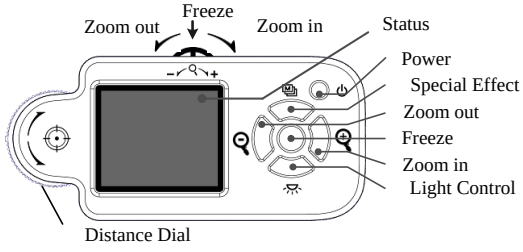




Attention: Ni-MH battery, USB cable, and USB power Adaptor are optional; they are not included in the product package.

Operation Description

Press the power button for 2 seconds to turn on the power of ViTiny. the immediately magnified images will be shown, on the screen.



- **Power:** To turn ViTiny on/off, press the power button for 2 seconds.
- **Distance Dial:** Clear plastic dial changes distance from ViTiny lens to surface and stops the lens from touching target surface. This focusing mechanism is used to get a clear observation image.
- **Special Effect:** Press the Image Effect button to select different image effect modes. Press this button for 2 seconds to turn scale on or off.
- **Freeze:** Press the Freeze button to freeze current image on the display screen.
- **Light Control:** You can control the light by press light control button. Please turn off the LED light, while the light is enough of the observed object itself or environment to avoid overexposing by the light is too bright. If the screen appears unclearly, please turn on the light of LED, because it means lighting is not enough.
- **3-way Rotation Button:** The function of 3-way Rotation Button includes zoom in/out and freeze-frame. Turn right to increase the magnifying rate and turn left to decrease the magnifying rate. Press down to freeze current image on display screen.

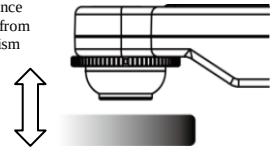
Image Effects

- **Gray Mode（G）:** Disappear colors and makes the image simplify to discriminate easily.
- **Inverse Mode（I）:** Augment the observation of the light-colored image.
- **Emboss Mode（E）:** Accentuate the symbol.
- **Dual Window View Mode（D）:** An image magnified at the least magnifying rate will immediately show on the right half of the screen, and an image magnified at the largest magnifying rate will immediately show on the left half of the screen.

Status

	Battery Low	When the icon is shown and flashes continuously, this means the battery is low
	Image Effect	N▸Normal Mode G▸Grey Mode I▸Inverse Mode E▸Emboss Mode D▸Dual Window View Mode
	Freeze	Freeze image, this icon (Key) appears. Press again to resume the static state of the display screen.
	Magnifying	The current magnifying rate is shown.
	Central indication frame	Central position of lens. Press the Special Effect button and hold for 2 seconds to switch to the scale.
	Scale	The value in the right is the **total length** of the scale, and value will be change when you zoon in the objects. **The scale is not precise calibration, it is for reference only.**

- **Distance Dial:** Clear plastic dial changes distance from ViTiny lens to surface and stops the lens from touching target surface. This focusing mechanism is used to get a clear observation image.
- **Aiming Mark:** Circular mark on back of case to shows position of lens,which helps locate lens over target.



Diagnosis of Malfunction

If your product cannot be operated normally, before you contact the retailer or ViTiny agent, please read the List of Problems below.

Problem	Possible Reasons
Blank screen or Power cannot be turned on.	⇨The product is at shutdown status. ⇨The batteries have not been correctly installed in the battery chamber or the power of batteries has been used up.
ViTiny shuts down without any warning sign.	⇨Insufficient power.
The screen is unclear.	⇨The surrounding light is too strong. Move ViTiny to a darker position. ⇨The screen is dirty and needs cleaning.
The image is blurred.	⇨Adjust the plastic distance dial to get a suitable focal distance.

Safety

- ViTiny is non-waterproof, so keep ViTiny dry.
- Do not uses in humid place like bathrooms. A dry environment will extend ViTiny life.
- Use ViTiny only at 5°C~ 45°C.
- Sudden temperature change may form dew inside ViTiny, like entering a warm room in cold winter. Put ViTiny inside a handbag or plastic bag to slow temperature changes.
- Do not let the ViTiny lens face the sun or strong light for a long time. Powerful light may hurt the light-sensitive electronics.
- Avoid touching the lens.
- The white LEDs which illuminate the microscope target field are very bright. Do not stare directly into these LEDs because it may damage your eyes.
- The clear plastic distance dial sometime picks up dirt or toxic material from a microscopically observed surface. Be careful touching this to the human skin. Wash carefully or disinfect as needed.

Maintenance

- Do not put ViTiny in a humid environment. A dry environment is helpful to extend the life of ViTiny.
- Sudden temperature change may form dews inside ViTiny, just like entering a warm indoor space in a cold winter.
- If being powerfully impacted, vibrated or distorted, ViTiny may be malfunctioned.
- Avoid letting the lens face the sun or other strong light source for a long time. Powerful light may damage the sensitive component, and cause white spots on the screen.
- Avoid touching the lens and do not forcefully dismantle the plastic distance dial or squeeze the screen or battery cap because all these parts can be damaged easily.
- When ViTiny is not in use in a long period of time, please remove the batteries.

Specifications

Sensitive component	CMOS
Effective pixels	300,000 pixels
Lens	High sensitivity lens
Auxiliary light	White LED × 3 with super high brightness
LCD screen	1.8" TFT color LCD screen
Magnifying rate	F300(24x~90x)
Power	Three AAA alkaline batteries or Ni-MH rechargeable batteries or USB power adaptor with output 5V and current more than 500mA.
Size	120 × 56 × 25 mm
Weight	The weight of ViTiny is about 70 grams (not including batteries)
Operation environment	Temperature: 5ºC ~ 45ºC Humidity: Below 85% (no dew)

※ The design and specifications are subject to change without notice. (Please refer to our website at http://www.vitiny.com for any revision or change.)